Swapna Ganapathy

List of Publications by Year
in descending order

21 papers	2,238 citations	394421 19 h-index	752698 20 g-index
24 all docs	24 docs citations	24 times ranked	2776 citing authors

#	Article	IF	Citations
1	A Direct View on Li-Ion Transport and Li-Metal Plating in Inorganic and Hybrid Solid-State Electrolytes. Accounts of Chemical Research, 2022, 55, 333-344.	15.6	25
2	Synthesis and Structureâ€“Property Relationships of Polyimide Covalent Organic Frameworks for Carbon Dioxide Capture and (Aqueous) Sodium-Ion Batteries. Chemistry of Materials, 2021, 33, 818-833.	6.7	76
3	Quantification of the Li-ion diffusion over an interface coating in all-solid-state batteries via NMR measurements. Nature Communications, 2021, 12, 5943.	12.8	36
4	High dielectric barium titanate porous scaffold for efficient Li metal cycling in anode-free cells. Nature Communications, 2021, 12, 6536.	12.8	44
5	Fast interfaces. Nature Energy, 2020, 5, 424-425.	39.5	4
6	Revealing the Impact of Space-Charge Layers on the Li-Ion Transport in All-Solid-State Batteries. Joule, 2020, 4, 1311-1323.	24.0	111
7	Controlling the Lithium-Metal Growth To Enable Low-Lithium-Metal-Excess All-Solid-State Lithium-Metal Batteries. , 2020, 2, 665-670.		37
8	Clarifying the relationship between redox activity and electrochemical stability in solid electrolytes. Nature Materials, 2020, 19, 428-435.	27.5	271
9	Tandem Interface and Bulk Li-Ion Transport in a Hybrid Solid Electrolyte with Microsized Active Filler. ACS Energy Letters, 2019, 4, 2336-2342.	17.4	80
10	Peeking across Grain Boundaries in a Solid-State Ionic Conductor. ACS Energy Letters, 2019, 4, 1092-1097.	17.4	45
11	Tailoring Li₆PS₅Br ionic conductivity and understanding of its role in cathode mixtures for high performance all-solid-state Liâ€“S batteries. Journal of Materials Chemistry A, 2019, 7, 10412-10421.	10.3	64
12	Toward Optimal Performance and Inâ€Depth Understanding of Spinel Li₄Ti₅O₁₂ Electrodes through Phase Field Modeling. Advanced Functional Materials, 2018, 28, 1705992.	14.9	43
13	Facile Synthesis toward the Optimal Structure-Conductivity Characteristics of the Argyrodite Li₆PS₅Cl Solid-State Electrolyte. ACS Applied Materials & Interfaces, 2018, 10, 33296-33306.	8.0	158
14	The Fine Line between a Twoâ€Phase and Solidâ€Solution Phase Transformation and Highly Mobile Phase Interfaces in Spinel Li₄₊_xTi₅O₁₂. Advanced Energy Materials, 2017, 7, 1601781.	19.5	33
15	Accessing the bottleneck in all-solid state batteries, lithium-ion transport over the solid-electrolyte-electrode interface. Nature Communications, 2017, 8, 1086.	12.8	299
16	Revealing the relation between the structure, Li-ion conductivity and solid-state battery performance of the argyrodite Li₆PS₅Br solid electrolyte. Journal of Materials Chemistry A, 2017, 5, 21178-21188.	10.3	76
17	Unravelling Li-Ion Transport from Picoseconds to Seconds: Bulk versus Interfaces in an Argyrodite Li₆PS₅Clâ€“Li₂S All-Solid-State Li-Ion Battery. Journal of the American Chemical Society, 2016, 138, 11192-11201.	13.7	188
18	Synthesis, structure and electrochemical performance of the argyrodite Li 6 PS 5 Cl solid electrolyte for Li-ion solid state batteries. Electrochimica Acta, 2016, 215, 93-99.	5.2	203

#	Article	IF	Citations
19	Nature of Li₂O₂ Oxidation in a Liâ€“O₂ Battery Revealed by Operando X-ray Diffraction. Journal of the American Chemical Society, 2014, 136, 16335-16344.	13.7	283
20	Nanosize Storage Properties in Spinel Li₄Ti₅O₁₂ Explained by Anisotropic Surface Lithium Insertion. ACS Nano, 2012, 6, 8702-8712.	14.6	131
21	Equilibrium Lithiumâ€Ion Transport Between Nanocrystalline Lithiumâ€Inserted Anatase TiO₂ and the Electrolyte. Chemistry - A European Journal, 2011, 17, 14811-14816.	3.3	30